DOCKET NO. P05789 PATENT

METHOD AND SYSTEM FOR TUNING QUALITY FACTOR IN HIGH-Q, HIGH-FREQUENCY FILTERS

ABSTRACT OF THE DISCLOSURE

A method for tuning quality factor (Q) in a high-Q, high-frequency filter is provided that includes filtering an input signal to generate a filtered signal. The input signal comprises a specified frequency. The filtered signal comprises an actual phase shift with respect to the input signal. The actual phase shift is compared to a desired phase shift for the filtered signal to determine a difference between the actual phase shift and the desired phase shift. The desired phase shift corresponds to the specified frequency. The filter is tuned based on the difference between the actual phase shift and the desired phase shift.